Physica 24D (1987) 413–414
North-Holland, Amsterdam

INDEX OF AUTHORS AND PAPERS

Albert, J.P., Bona, J.L. and Henry, D.B., Sufficient conditions for stability of solitary-wave solutions of model equations for long waves 24D (1987) 343

Bier, M., see Bountis, T. 24D (1987) 292
Bona, J.L., see Albert, J.P. 24D (1987) 343
Bountis, T., Papageorgiou, V. and Bier, M., On the singularity analysis of intersecting separatrices in near-integrable dynamical systems 24D (1987) 292

Chua, L.O., see Matsumoto, T. 24D (1987) 110
Contopoulos, G. and Polymilis, C., Approximations of the 3-particle Toda lattice 24D (1987) 328
Cusumano, J., see Moon, F.C. 24D (1987) 383

Davis, S.H., Coupled Lorenz oscillators 24D (1987) 226

Golubitsky, M., Stewart, I. and Marsden, J., Generic bifurcation of Hamiltonian systems with symmetry 24D (1987) 391
Grebogi, C., Ott, E. and Yorke, J.A., Basin boundary metamorphoses: changes in accessible boundary orbits 24D (1987) 243
Greene, J.M. and Kim, J.-S., The calculation of Lyapunov spectra 24D (1987) 213

Hall, L.S., Comment on the paper by W. Sarlet, P.G.L. Leach, and F. Cantrijn: first integrals versus configurational invariants and a weak form of complete integrability 24D (1987) 406
Henry, D.B., see Albert, J.P. 24D (1987) 343
Hess, B., see Müller, S.C. 24D (1987) 71
Hess, B., see Müller, S.C. 24D (1987) 87
Holmes, P.J., see Moon, F.C. 24D (1987) 383

Kim, J.-S., see Greene, J.M. 24D (1987) 213
Kivshar, Y.S. and Malomed, B.A., Many-particle effects in nearly integrable systems 24D (1987) 125
Komuro, M., see Matsumoto, T. 24D (1987) 110
Korsch, J., see Poppe, D. 24D (1987) 367
Kostelich, E.J. and Yorke, J.A., Lorenz cross sections of the chaotic attractor of the double rotor 24D (1987) 263

Lee, J., Triad-angle locking in low-order models of the 2D Navier–Stokes equations 24D (1987) 54

Mallet-Paret, J., see Yorke, J.A. 24D (1987) 279
Malomed, B.A., see Kivshar, Y.S. 24D (1987) 125
Malomed, B.A., Decay of shrinking solitons in multidimensional sine-Gordon equation 24D (1987) 155

Marsden, J., see Golubitsky, M. 24D (1987) 391
Matsumoto, T., Chua, L.O. and Komuro, M., Birth and death of the double scroll 24D (1987) 110
Mestel, B. and Percival, I., Newton method for highly unstable orbits 24D (1987) 172
Moon, F.C., Cusumano, J. and Holmes, P.J., Evidence for homoclinic orbits as a precursor to chaos in a magnetic pendulum 24D (1987) 383
Müller, S.C., Plesser, T. and Hess, B., Two-dimensional spectrophotometry of spiral wave propagation in the Belousov–Zhabotinskii reaction. I. Experiments and digital data representation 24D (1987) 71
Müller, S.C., Plesser, T. and Hess, B., Two-dimensional spectrophotometry of spiral wave propagation in the Belousov–Zhabotinskii reaction. II. Geometric and kinematic parameters 24D (1987) 87

Ott, E., see Grebogi, C. 24D (1987) 243

Papageorgiou, V., see Bountis, T. 24D (1987) 292
Percival, I., see Mestel, B. 24D (1987) 172
Plesser, T., see Müller, S.C. 24D (1987) 71
Plesser, T., see Müller, S.C. 24D (1987) 87
Polymilis, C., see Contopoulos, G. 24D (1987) 328
Poppe, D. and Korsch, J., Stochastic and deterministic dissociation dynamics of a Morse oscillator driven by impulsive interactions 24D (1987) 367

Rodin, Yu.L., The Riemann boundary value problem on closed Riemann surfaces and integrable systems (*Review paper*) 24D (1987) 1

Sethna, P.R. and Shaw, S.W., On codimension-three bifurcations in the motion of articulated tubes conveying a fluid 24D (1987) 305
Shaw, S.W., see Sethna, P.R. 24D (1987) 305
Stewart, I., see Golubitsky, M. 24D (1987) 391
Swanson, D.G., Particles, 4-vector solitons, and the modified Dirac equations 24D (1987) 207

Willson, S.J., The equality of fractional dimensions for certain cellular automata 24D (1987) 179
Willson, S.J., Computing fractal dimensions for additive cellular automata 24D (1987) 190

Yorke, E.D., see Yorke, J.A. 24D (1987) 279
Yorke, J.A., see Grebogi, C. 24D (1987) 243
Yorke, J.A., see Kostelich, E.J. 24D (1987) 263
Yorke, J.A., Yorke, E.D. and Mallet-Paret, J., Lorenz-like chaos in a partial differential equation for a heated fluid loop 24D (1987) 279

PHYSICA D

VOLUME 24D, Nos. 1–3 **JANUARY / FEBRUARY 1987**

CONTENTS

Editorial v

Colour illustrations – Note from the editors and the publisher vii

RODIN, Yu.L., The Riemann boundary value problem on closed Riemann surfaces and integrable systems (*Review paper*) 1

LEE, J., Triad-angle locking in low-order models of the 2D Navier–Stokes equations 54

MÜLLER, S.C., PLESSER, T. and HESS, B., Two-dimensional spectrophotometry of spiral wave propagation in the Belousov–Zhabotinskii reaction. I. Experiments and digital data representation 71

MÜLLER, S.C., PLESSER, T. and HESS, B., Two-dimensional spectrophotometry of spiral wave propagation in the Belousov–Zhabotinskii reaction. II. Geometric and kinematic parameters 87

MATSUMOTO, T., CHUA, L.O. and KOMURO, M., Birth and death of the double scroll 110

KIVSHAR, Y.S. and MALOMED, B.A., Many-particle effects in nearly integrable systems 125

MALOMED, B.A., Decay of shrinking solitons in multidimensional sine-Gordon equation 155

MESTEL, B. and PERCIVAL, I., Newton method for highly unstable orbits 172

WILLSON, S.J., The equality of fractional dimensions for certain cellular automata 179

WILLSON, S.J., Computing fractal dimensions for additive cellular automata 190

SWANSON, D.G., Particles, 4-vector solitons, and the modified Dirac equations 207

GREENE, J.M. and KIM, J.-S., The calculation of Lyapunov spectra 213

DAVIS, S.H., Coupled Lorenz oscillators 226

GREBOGI, C., OTT, E. and YORKE, J.A., Basin boundary metamorphoses: changes in accessible boundary orbits 243

KOSTELICH, E.J. and YORKE, J.A., Lorenz cross sections of the chaotic attractor of the double rotor 263

YORKE, J.A., YORKE, E.D. and MALLET-PARET, J., Lorenz-like chaos in a partial differential equation for a heated fluid loop 279

BOUNTIS, T., PAPAGEORGIOU, V. and BIER, M, On the singularity analysis of intersecting separatrices in near-integrable dynamical systems 292

SETHNA, P.R. and SHAW, S.W., On codimension-three bifurcations in the motion of articulated tubes conveying a fluid 305

CONTOPOULOS, G. and POLYMILIS, C., Approximations of the 3-particle Toda lattice 328

ALBERT, J.P., BONA, J.L. and HENRY, D.B., Sufficient conditions for stability of solitary-wave solutions of model equations for long waves 343

POPPE, D. and KORSCH, J., Stochastic and deterministic dissociation dynamics of a Morse oscillator driven by impulsive interactions 367

MOON, F.C., CUSUMANO, J. and HOLMES, P.J., Evidence for homoclinic orbits as a precursor to chaos in a magnetic pendulum 383

GOLUBITSKY, M., STEWART, I. and MARSDEN, J., Generic bifurcation of Hamiltonian systems with symmetry 391

HALL, L.S., Comment on the paper by W. Sarlet, P.G.L. Leach, and F. Cantrijn: first integrals versus configurational invariants and a weak form of complete integrability 406

ERRATUM 408

CONFERENCE CALENDAR 409

FORTHCOMING ARTICLES 410

INDEX OF AUTHORS AND PAPERS TO VOLUME 24D 413